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NOTICE OF ALLOWANCE AND FEE(S) DUE

23577 7590 99/02/2008
RIDOUT & MAYBEE LLP
225 KING STREET WEST
10TH FLOOR
TORONTO, ON M5V 3M2

CANADA

EXAMINER

HOANG, HIEU T

ART UNIT PAPER NUMBER

2152

DATE MAILED: 09/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,939	09/09/2003	Hamid Ould-Brahim	38898-0135	1612

TITLE OF INVENTION: SVC-L2.5 VPNS: COMBINING LAYER-3 VPNS TECHNOLOGY WITH SWITCHED MPLS/IP L2VPNS FOR ETHERNET, ATM AND FRAME RELAY CIRCUITS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance of nerwise in Block 1, by	orders and notification (a) specifying a new or	of ma	nintenance fees wo ondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corre trate	espondence address as "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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TORONTO, ON CANADA	M5V 3M2								(Depositor's name)
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				_				_	(Date)
APPLICATION NO.	CATION NO. FILING DATE		FIRST NAMED INVENT		R ATTORNEY DOCKET NO		RNEY DOCKET NO.	CONFIRMATION NO.	
10/657,939 TITLE OF INVENTION ATM AND FRAME RE		OMBINING LAYER-3	Hamid Ould-Brahii VPNS TECHNOLOGY		TH SWITCHED !	MPLS/	38898-0135 IP L2VPNS FOR ETI	HERN	1612 NET,
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE :	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	\perp	DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740		12/02/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	3					
HOANG.		2152	709-230000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form and Use of a Customer		ip to 3 mative single or ag attorn Il be p or type he pat g an as	registered paten sly, firm (having as a ent) and the name eys or agents. If a rinted.	membes of u	er a 2	ocum	ent has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	orinted on the patent):	01	Individual 🚨 Co	rporati	on or other private gro	oup er	ntity Government
4a. The following fee(s) Issue Fee Publication Fee (N	o small entity discount p		bb. Payment of Fee(s): (A check is enclos Payment by credi The Director is he overpayment, to I	ed. it card.	Form PTO-2038	is atta	ched. required fee(s), any de	ficien	
	s SMALL ENTITY state	as. See 37 CFR I.27.					TITY status. See 37 Cl		
NOTE: The Issue Fee an interest as shown by the	records of the United Sta	tes Patent and Trademar	k Office.	ian un	e applicant, a regi	stereu :	ittorney or agent, or ti	ic ass	ignee of outer party in
Authorized Signature					Date				
Typed or printed name			Registration No.						
This collection of inform an application. Confiden submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC 13-1450.	CFR 1.311. The informat U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to to D NOT SEND FEES OR	on is required to obtain 1.14. This collection i y depending upon the i he Chief Information O COMPLETED FORM	or ret is estir individ Officer, IS TO	tain a benefit by the mated to take 12 r dual case. Any co , U.S. Patent and THIS ADDRESS	ne publ ninutes mment Fraden . SENI	ic which is to file (and to complete, includir s on the amount of til ark Office, U.S. Dep D TO: Commissioner	I by the gat me you artme for Pa	he USPTO to process) hering, preparing, and ou require to complete int of Commerce, P.O. atents, P.O. Box 1450,

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10/657,939	09/09/2003	Hamid Ould-Brahim	38898-0135	1612	
23577 7.	590 09/02/2008		EXAMINER		
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225 KING STREE	ET WEST		ART UNIT	PAPER NUMBER	
10TH FLOOR			2152		
TORONTO, ON M5V 3M2			DATE MAILED: 09/02/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 795 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 795 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/657,939	OULD-BRAHIM, HAMID	
Examiner	Art Unit	
HIFU T. HOANG	2152	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 7/30/2008.
- The allowed claim(s) is/are 1-23.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

1) hereto or 2) to Paper No./Mail Date

- (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1.

 Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- 3. Information Disclosure Statements (PTO/SB/08), Pacer No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6 Interview Summery (PTO-413) Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

Application/Control Number: 10/657,939

Art Unit: 2152

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment to place the application in condition for allowance was given in a telephone interview with Colin Climie on 08/21/2008, during which the applicant's representative agreed on cancelling claim 24 and amending paragraph [0032] in the specification.

The specification have been amended as follows:

In paragraph [0032], on line 2, after "Application Number", before ",", delete the blank space "______", insert --10/658701--

The claims have been amended as follows:

Claim 24 is cancelled.

For claim 1, on line 18, after "a port information table", insert --, stored in a computer storage device, --. On line 4, before "elements", delete "said". On line 23, after "elements at", delete "the".

For claim 2, on line 2, before "Laver-3", delete "a", insert --said--.

For claim 3, on line 2, before "Layer-3", delete "a subset of".

For claim 4, on line 2, before "Laver-3", delete "a subset of".

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For claim 12, on line 2, before "elements", delete "said". On line 21, after "elements at", delete "the".

For claim 13, on line 1, after "via", delete "a", insert --said--.

For claim 23, on line 2, after "one first subset of", delete "said". On line 7, before "topology", delete "L2VPN", insert --Layer-2 VPN--. On line 16, after "establishing", delete "the". On line 24, after "elements at", delete "the".

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-23 are allowed. The prior art of record does not teach the claimed invention, as follows.

As to claim 1, the prior art does not teach "Layer-2 connectivity between elements within said first subset of elements at the Layer-2 level across said Layer-3 VPN service". Prior art Ould-Brahim relates to the establishment of Optical VPNs, which are Layer-1 VPNs. Therefore, the prior art, singly or in combination, fails to teach or suggest Layer-3 VPN service between provider edge routers (PEs). The claimed invention is patentably distinct from the prior art for providing Layer-2 connectivity between customer edge devices (CEs) at the Layer-2 level across said Layer-3 VPN service maintained by CEs.

Independent claims 12 and 23 are allowed for the same rationale given in claim 1.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is included in form PTO 392.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HH

/Bunjob Jaroenchonwanit/

Supervisory Patent Examiner, Art Unit 2152